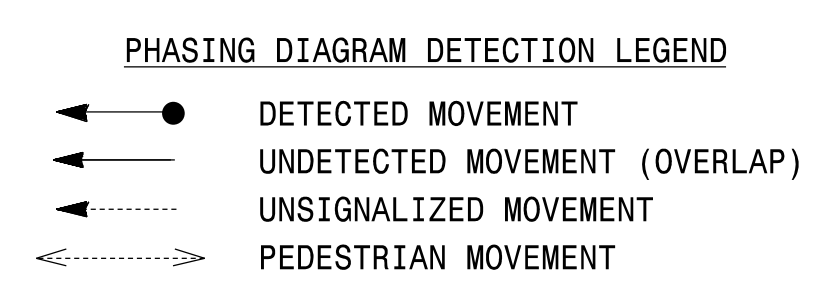
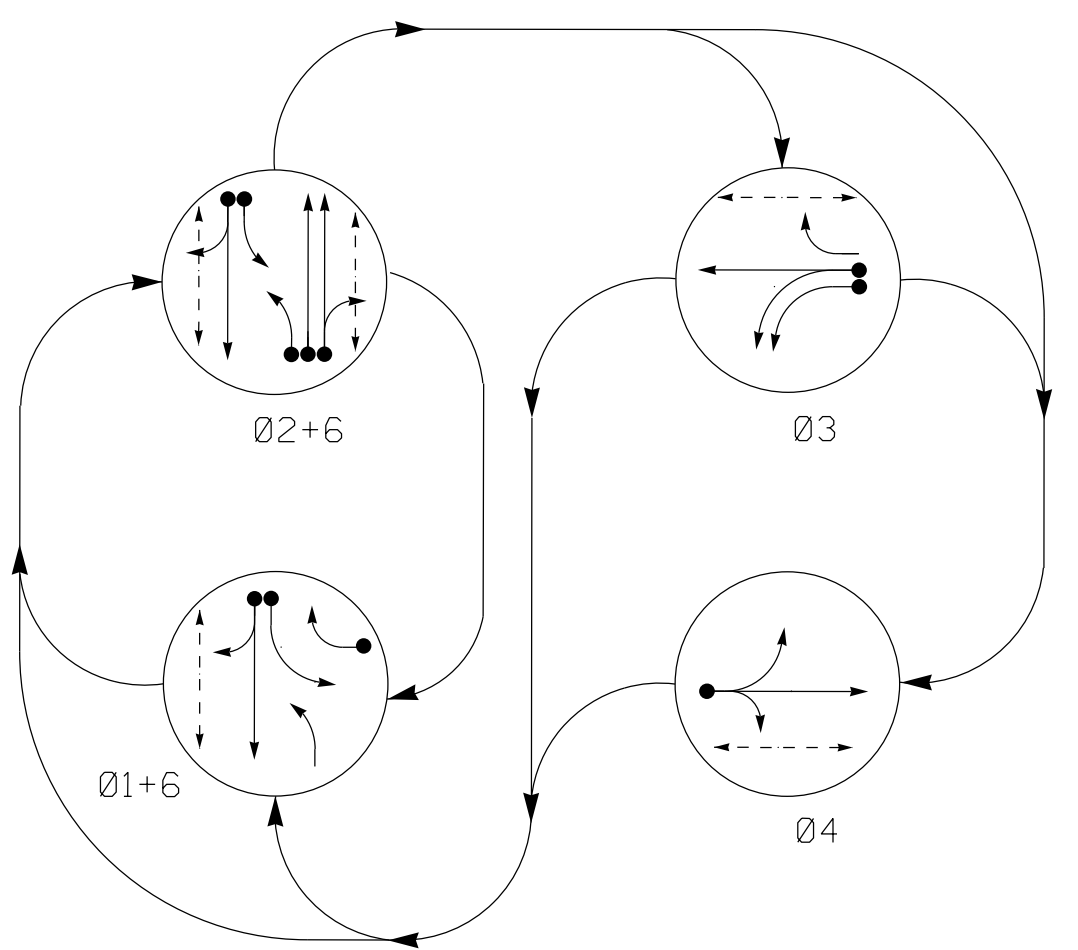


**PHASING DIAGRAM**

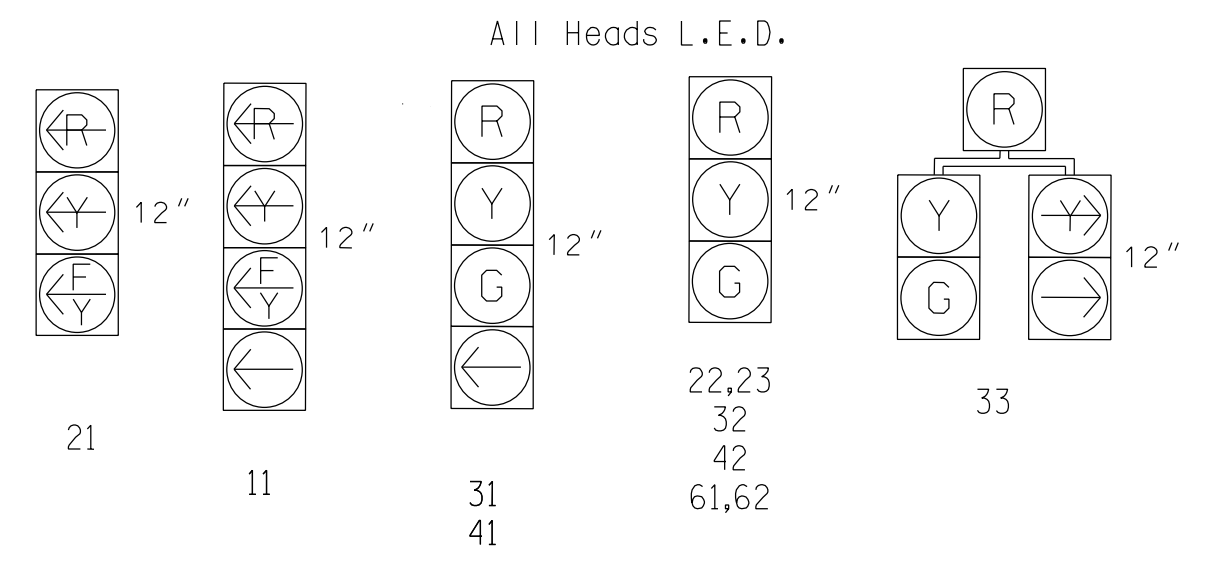


**TABLE OF OPERATION**

SIGNAL FACE	PHASE				
	01+6	02+6	03	04	PEDESTRIAN
11	←	←	←	←	←
21	←	←	←	←	←
22,23	R	G	R	R	Y
31	R	R	G	R	R
32	R	R	G	R	R
33	R	R	G	R	R
41	R	R	G	R	R
42	R	R	R	G	R
61,62	G	G	R	R	Y
P21,P22	DW	W	DW	DW	DRK
P31,P32	DW	DW	W	DW	DRK
P41,P42	DW	DW	DW	W	DRK
P61,P62	W	W	DW	DW	DRK

W - Walk  
DW - Don't Walk  
DRK - Dark

**SIGNAL FACE I.D.**



**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

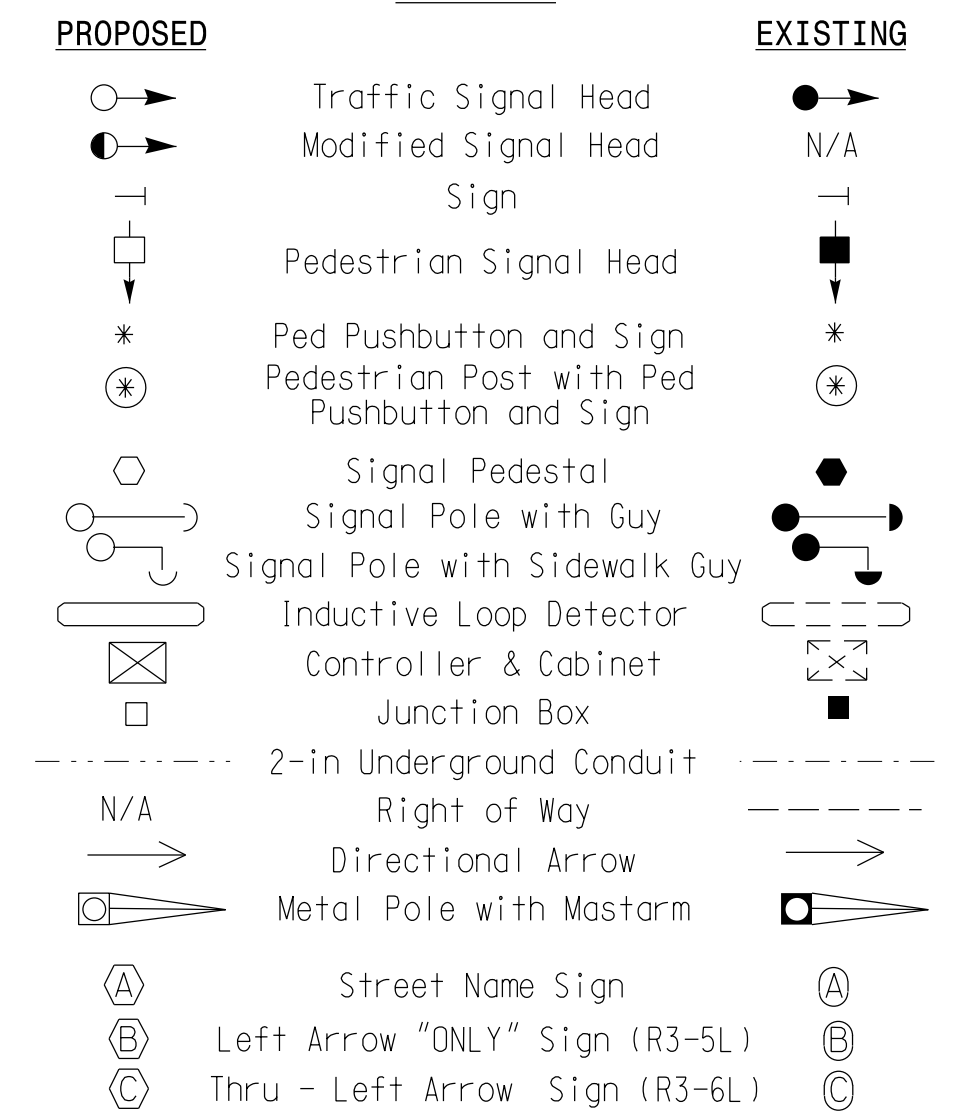
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	STRETCH TIME DELAY	DELAY TIME	SYSTEM LOOP	NEW CARD	
1A	6X40	0	2-4-2	-	1	Y	Y	-	-	15	-	Y
1B	6X40	0	2-4-2	-	6	Y	Y	-	-	-	-	Y
2A	6X6	70	EXIST	-	2	Y	Y	-	-	-	-	Y
2B	6X6	70	EXIST	-	2	Y	Y	-	-	-	-	Y
2C	6X40	0	2-4-2	-	2	Y	Y	-	-	-	-	Y
3A	6X40	0	2-4-2	-	3	Y	Y	-	-	-	-	Y
3B	6X40	0	2-4-2	-	3	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	5	-	Y
6A	6X6	70	EXIST	-	6	Y	Y	-	-	-	-	Y

**4 Phase Fully Actuated (Asheville Signal System)**

**NOTES**

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the City Traffic Engineer. Phase 1 may be logged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

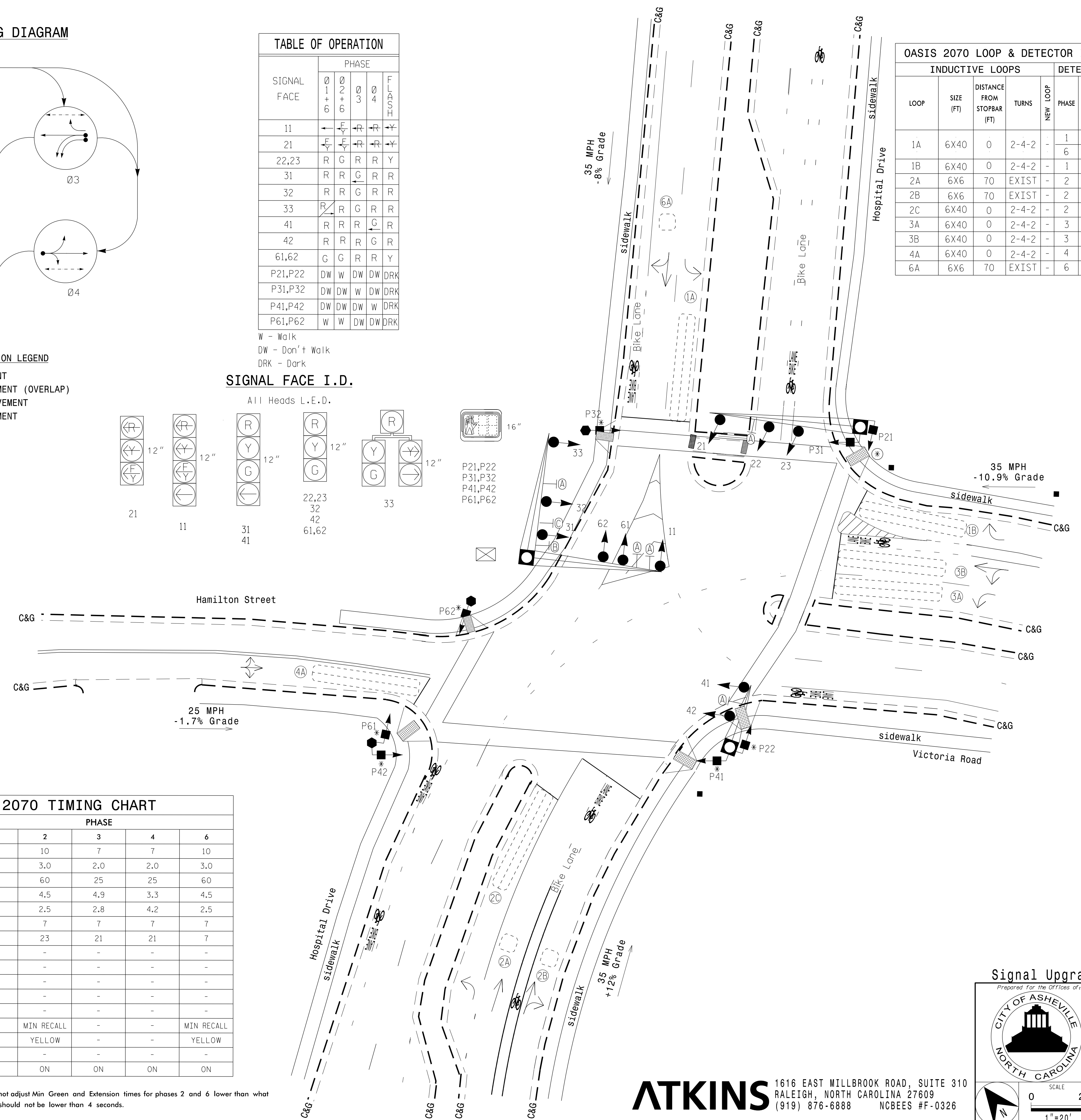
**LEGEND**



**OASIS 2070 TIMING CHART**

FEATURE	PHASE				
	1	2	3	4	6
Min Green 1 *	7	10	7	7	10
Extension 1 *	2.0	3.0	2.0	2.0	3.0
Max Green 1 *	15	60	25	25	60
Yellow Clearance	3.3	4.5	4.9	3.3	4.5
Red Clearance	3.3	2.5	2.8	4.2	2.5
Walk 1 *	-	7	7	7	7
Don't Walk 1	-	23	21	21	7
Seconds Per Actuation *	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	-	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON	ON

\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



**Signal Upgrade**

Prepared for the Offices of:

**CITY OF ASHEVILLE**

**Hospital Drive at Victoria Road/Hamilton Street**

Division 13 Buncombe County Asheville

PLAN DATE: April 2016 REVIEWED BY: AM Encarnacion

PREPARED BY: RA Feige REVIEWED BY: MB Toth

REVISIONS INIT. DATE

SCALE 0 20 1"=20'

15-DEC-2016 15:27  
D:\Transpor\at\work\Traffic\Cur\100048632 U-4715B Asheville\11e 51g Sys\Task 05\_ 11\_51gnals\asheville\07.dgn  
enc05386 AT LUS200321

1616 EAST MILLBROOK ROAD, SUITE 310  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888 NCBEES #F-0326

SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 025892  
MELISSA B. TOOTH

COA-07